

Acta Physica Austriaca

Edited in cooperation
with the Austrian Academy of Sciences

Herausgegeben unter Mitwirkung der
Österreichischen Akademie der Wissenschaften

by/von Paul Urban, Graz

Heinrich Mitter, Graz
(Managing Editor)

Vol. 54/1982

ISSN 0001-6713

Springer-Verlag Wien New York



Acta Physica Austriaca

Editorial Advisory Board / Fachbeirat

G. Alaga, Zagreb
M. Baldo-Ceolin, Padova
K. Baumann, Graz
P. Budini, Trieste
F. Cap, Innsbruck
T. Erber, Chicago, Ill.
H. Faissner, Aachen
J. Fischer, Praha
O. Hittmair, Wien
H. Joos, Hamburg
H. Kirchmayr, Wien
E. Ledinegg, Graz
K. Lintner, Wien

G. Marx, Budapest
J. Pišút, Bratislava
F. Rohrlich, Syracuse, N. Y.
H. Rollnik, Bonn
H. Schopper, Genève
K. H. Seeger, Wien
L. Streit, Bielefeld
W. Thirring, Wien
I. Todorov, Sofia
A. Trautman, Warszawa
H. Überall, Washington, D. C.
H. Vonach, Wien
E. P. Wigner, Princeton, N. J.

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproductions including microform is transferred to the publisher.

Alle Rechte, einschließlich das der Übersetzung in fremde Sprachen und das der photomechanischen Wiedergabe oder einer sonstigen Vervielfältigung, auch in Mikroform, vorbehalten.

© 1982 by Springer-Verlag/Wien

Contents/Inhalt

Beig, R.: On Scattering of Scalar Waves in Static Space-Times, Particularly Schwarzschild	129
Berg, H.P.: Schrödinger Quantization of Affine Mechanical Systems	191
Burghardt, R.: Kinematische Analyse der Kerrmetrik	13
Cap, F.F.: Oscillations of Membranes of Nearly Arbitrary Form	69
Chaudhury, S., s. Fell, B.	277
Črepinšek, L., Zingl, H.F.K.: Forward Proton Production in $d(\gamma, p)n$ and the Role of the D -Wave Function	151
Eder, G.: A Model for Neutrino Galaxies	111
Fell, B., Montes, Maria-Cristina, Ko, C.-L., Chaudhury, S., Srinivas, T.K., Fujita, S., Robles-Domingues, J.: The Impurity-Density Dependence of the Conductivity of a Metal	277
Folk, R.: Kritische Dynamik am suprafluiden Phasenübergang in ^4He	75
Fujita, S., s. Fell, B.	277
Grotch, H., Kazes, E., Rohrllich, F., Sharp, D.H.: Internal Retardation	31
Hadžiahmetović, D., Mirjanić, D.: On the Problem of Superfluidity in Exciton Systems	211
Hess, H., Krautz, E., Scala, M.: Luminescence of Undoped Zinc Silicate	265
Kamiński, J. Z.: On the Effective Lagrangian and the Johnson-Baker-Willey Function	1
Kazes, E., s. Grotch, H.	31
Ko, C.-L., s. Fell, B.	277
Krautz, E., s. Hess, H.	265

Kriechbaum, M.: Quantentransport in einem nichtparabolischen Band	39
Kundu, A.: Nonlinear Field Models with Nontrivial Topological Charges in Three Space Dimensions	7
Ledinegg, E.: A Comparison of Analytical Methods Concerning Back-Scattering from Periodic and Nonperiodic Structures	233
Mirjanić, D., s. Hadžiahmetović, D.	211
Montes, Maria-Cristina, s. Fell, B.	277
Mukhopadhyay, P.: On the Suppressed Production of Some Bottom and Top Hadrons	123
Narnhofer, Heide: On Local Temperature	293
Narnhofer, Heide: Thermodynamical Phases and Surface Effects	221
Plessas, W.: On-Shell and Off-Shell Behaviour of Separable Nucleon-Nucleon Potentials	305
Porod, G.: Zur Statistik von Fadenmolekülen. Die Winkelverteilung im Persistenzmodell	339
Robles-Domingues, J., s. Fell, B.	277
Rohrlich, F., s. Grotch, H.	31
Rupertsberger, H., Svozil, K.: Hadronic Final States in the Decay $Z^0 \rightarrow W^\pm X^\mp$ and the Weak Boson Self-Coupling	255
Scala, M., s. Hess, H.	265
Sharp, D. H., s. Grotch, H.	31
Srinivas, T. K., s. Fell, B.	277
Srivastava, T.: On the Representation of Generalized Dirac (Clifford) Algebras	287

Svozil, K., s. Rupertsberger, H.	255
Wallner, R. P.: Notes on Gauge Theory and Gravitation . . .	165
Zingl, H. F. K., s. Črepinšek, L.	151
Book Reviews/Buchbesprechungen	61, 143, 345
Erratum	68
Listed in Current Contents	

